

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
6 October 2005 (06.10.2005)

PCT

(10) International Publication Number
WO 2005/093050 A2

- (51) International Patent Classification⁷: C12N 9/42 MITCHINSON, Colin [GB/US]; 381 Myrtle Street, Half Moon Bay, 5 94019 (US).
- (21) International Application Number: PCT/US2005/010242 (74) Agent: BOYD, Victoria, L.; Genencor International, INC., 925 Page Mill Road, Palo Alto, CA 94304 (US).
- (22) International Filing Date: 25 March 2005 (25.03.2005) (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 60/556,711 25 March 2004 (25.03.2004) US
- (71) Applicant (for all designated States except US): GENENCOR INTERNATIONAL, INC. [US/US]; 925 Page Mill Road, Palo Alto, CA 94304 (US).
- (72) Inventors; and (75) Inventors/Applicants (for US only): BOWER, Benjamin, S. [US/US]; 8479 Mayhews Landing Road, Newark, CA 94560 (US); LARENAS, Edmund, A. [US/US]; 301 Nevada, Moss Beach, 5 94038 (US).
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

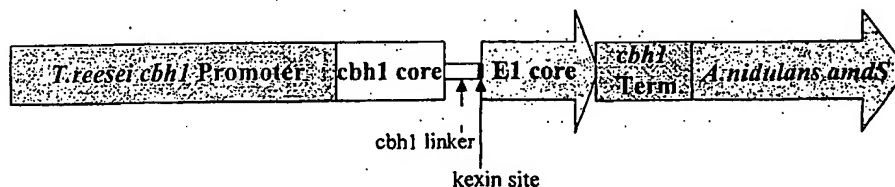
(54) Title: CELLULOSE FUSION PROTEIN AND HETEROLOGOUS CELLULOSE FUSION CONSTRUCT ENCODING THE SAME

CBH1-E1 Fusion Construct

T. reesei cbh1 core, linker (no CBD)

+

Acidothermus cellulolyticus endoglucanase 1 core (E1)



(57) Abstract: The present invention relates to a heterologous cellulase fusion construct, which encodes a fusion protein having cellulolytic activity comprising a first catalytic domain derived from a fungal exo-cellobiohydrolase and a second catalytic domain derived from a cellulase enzyme. The invention also relates to vectors and fungal host cells comprising the heterologous cellulase fusion construct as well as methods for producing said cellulase fusion protein and enzymatic cellulase compositions.

BEST AVAILABLE COPY

WO 2005/093050 A2

WO 2005/093050 A2



Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

BEST AVAILABLE COPY